

## ABSTRACT OF THE DISCLOSURE

A process for producing tyres for vehicle wheels includes making a raw tyre including at least one crosslinkable elastomeric material, molding the raw tyre in a molding cavity defined in a vulcanization mold, and crosslinking the elastomeric material by heating the tyre to a predetermined temperature for a predetermined time, wherein the raw tyre includes at least one crosslinkable elastomeric material having an elastomeric polymer containing epoxide groups and an active filler containing hydroxyl groups dispersed in the elastomeric polymer, and wherein the crosslinking step is carried out essentially without additional crosslinking agents. A related composition, process for producing the composition, manufactured product, and tyre are also disclosed.

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